



MAP READING

Leader/Helper Notes



READING ROAD MAPS

Using the South East Australia and Australia Touring Map (kindly donated by the NRMA) provided, work with the Leaders and older Cubs to find the answers to the following questions. Use the map of South East Australia for Questions 1–13, and the map of the whole of Australia for Questions 14–18.

Introduce the basic map concepts using the Map Legend

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| 1 Locate a Freeway
What is the Route Number of the Freeway you located? | Refer to Map Legend
Refer to Map Legend |
| 2 Locate a Major Highway (Through Route) | Refer to Map Legend |
| 3 Locate a minor road (Minor Connector) | Refer to Map Legend |
| 4 Locate a railway line | Refer to Map Legend |
| 5 Locate a State Border
What does a State Border look like on the ground? | Refer to Map
Often, it's nothing special at all—just like any other piece of ground. But it may be a river (<i>cf.</i> NSW/Vic) or an agricultural control (fruit fly; tick; plant) check point (not shown on this map). |

How do we use this kind of map? (Use the Map Index to locate places.) What do we use it for? (Use the Map Legend to differentiate between road surfaces.) What are some of its limitations?

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| 6 Locate Canberra and Goulburn

How many ways could you travel (by road, more or less directly) to Goulburn from Canberra?

Which is the best (surface) road?

What is the distance between Canberra and Goulburn, via the most direct (road) route?

Which road travels through the most hilly country?

Can you tell if there are roadworks in progress (<i>i.e.</i> possible delays) on any of these roads? | Refer to Index
M9 and M8

Several
Directly, via Yass, via Gunning, via Bungendore/Tarago etc.

Refer to Legend and Map
Federal Highway

Refer to Distance Chart
98 km

Cannot really tell from this map

No. Sometimes a map (not this one) will include roads that are 'Under Construction'. |
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7	Locate Sydney	Refer to Index O7
	How far is it by road from Canberra to Sydney (via the most direct path, according to the map)?	Refer to Distance Chart 281 km
8	Locate Forbes and Tamworth	Refer to Index L7 and N5
	How far is it by road from Forbes to Tamworth (via the most direct path, according to the map)?	Refer to Distance Chart 491 km

9	Locate Condobolin	Refer to Index K7
	How far is it from Forbes to Condobolin?	Refer to Legend and Map 103 km via Minor road, or 132 km via Major Road(s)

10	Locate Byrock and Gongolgon	Refer to Index J4
	How far is it from Byrock to Gongolgon?	Refer to Scale in Legend ~60 km

11	Locate Cradock	Refer to Index B6
	In what State is Cradock?	Refer to Map SA

12	<p>Locate Ararat and Castlemaine</p> <p>In what direction is Castlemaine from Ararat? (In what direction would you be travelling if you were going directly from Ararat to Castlemaine?)</p> <p>Would you want to be driving from Ararat to Castlemaine at sunrise?</p>	<p>Refer to Index F11 and H11</p> <p>Note Map Orientation East</p> <p>Probably not. You'd be driving with the sun in your eyes!</p>
13	<p>Locate Moree and Narrabri</p> <p>In what direction is Moree from Narrabri? (In what direction would you be travelling if you were going directly from Narrabri to Moree?)</p>	<p>Refer to Index M3 and M4</p> <p>Note Map Orientation North</p>

Use the smaller scale (1:6,500,000) map to look at a larger area. Note that the Name Index now identifies in which State a town or city is located.

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| <p>14 Locate Zanthus</p> <p style="padding-left: 40px;">In which State is Zanthus</p> | <p>Refer Index
C6</p> <p>Refer Index or Map
WA</p> |
| <p>15 Locate Laverton and Warburton Community</p> <p style="padding-left: 40px;">How far is it from Laverton to Warburton Community?</p> <p style="padding-left: 40px;">What kind (standard) of road links the two?</p> | <p>Refer Index
C5 and D5 WA</p> <p>Refer Map
691 km</p> <p>Refer Map and Legend
Unsealed Minor Connecting Road</p> |

Introduce the concept of (Parallels of) Latitude and (Meridians of) Longitude. They serve to locate this map on the Globe. Note that we don't really need this information to travel between places on this map, but if we wanted to travel to somewhere on a different map, we would need something to 'tie the two maps together'.

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| <p>16 Locate Longreach</p> <p style="padding-left: 40px;">At what Latitude (Parallel) is Longreach?</p> | <p>Refer Index
G4 Qld</p> <p>Refer to Map
23° 26' 30"
The Tropic of Capricorn</p> |
| <p>17 Locate Lithgow</p> <p style="padding-left: 40px;">At what Longitude (Meridian) is Lithgow?</p> | <p>Refer Index
J6 NSW</p> <p>150° E</p> |
| <p>18 Locate Rabbit Flat?</p> <p style="padding-left: 40px;">At what Latitude and Longitude is Rabbit Flat?</p> | <p>Refer Index
D4 NT</p> <p>20° S / 130° E</p> |

Mention the fact that we have been working with a Road Map, used when we are *driving* somewhere. The scale used is appropriate for the distances we travel in cars today. If we were walking, however, we would probably use quite a different sort of map. What would we be interested in if we were walking? How far could we walk in a day or two? What would be an appropriate scale for such a map?